

PRODUCTION AND OPERATIONS MANAGEMENT

Course Objectives

This course is designed to provide the students with an understanding of Operations Management and its application in both manufacturing and service organizations. The course will analyze operations from both the strategic and operational perspectives and highlight the competitive advantages that operations can provide to maximize the profit of the organization.

This course will help students to analyze a production or operations situation by applying the OM techniques discussed in the class.

-) To provide students' knowledge about different types of goods and services operations systems in terms of key characteristics, management tasks, organization and control, and impact on the strategy and direction of the firm.
-) To give students knowledge about the strategic and tactical operations management issues and their relationship to the other functional areas of the firm.
-) To give exposure to students on basic competence with the tools and techniques used by real-life operations professionals in managing operations and setting operations policy.

Course Contents

Successful completion of the course means Students will be able to

-) Describe operation management and its contribution to an organization.
-) Develop an operational aggregate plan following different strategies.
-) Describe inventory systems for independent demand and the costs and benefits of carrying inventory.
-) Identify the characteristics of JIT (just-in-time) systems that enable the realization of the JIT philosophy.
-) To quantify the improvements that various supply chain strategies offer.
-) Understand which barriers companies face during the implementation of new supply chain strategies.
-) Develop knowledge and skills relating to Supply Chain management.

Reference Books

-) William J. Stevenson, Operations Management, 14th Edition, Jan 2011
-) Sunil Chopra, Supply Chain management, 5th Edition, Feb 2012